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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,275	12/05/2003	Tim Hellman	SDV-001B	1607
21323	7590	01/25/2006	EXAMINER	
TESTA, HURWITZ & THIBEAULT, LLP HIGH STREET TOWER 125 HIGH STREET BOSTON, MA 02110			RAHMJOO, MANUCHER	
			ART UNIT	PAPER NUMBER
			2676	

DATE MAILED: 01/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/729,275	Applicant(s) HELLMAN, TIM	
	Examiner Mike Rahmjoo	Art Unit 2676	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 January 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1- 16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1- 16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 and 4-16 are rejected under 35 U.S.C. 102(e) as being anticipated by LINZER et al, US Patent Application Publication, Pub., No. US 2004/0100577.

As per claims 1 and 9, as to the broadest reasonable interpretation by examiner, LINZER et al teaches retrieving a plurality of color space components from a first memory, wherein a decomposing of pixel image data produces said color space components and wherein each of color space components begins in a different burst see for example paragraphs [0037], [0042] , [0063] and [0073] for the decomposed three primary colors associated with different color space components which are transferred in different burst; and storing and retrieving (see for example paragraphs [0042] and [0051] for fetching, storing/ retrieving) the plurality of color space

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components in one continuous machine-readable memory segment in a machine readable memory (see section 0042 - 'Cb and co- located Cr pixels may be stored adjacent to each other'), the machine readable memory having one or more burst boundaries (section 0042 also discloses more than one burst boundary broadly corresponding to different memory segments); and storing the pixel image data in one continuous machine readable memory segment in the machine readable memory device, the continuous machine readable memory segment having one or more burst boundaries see for example paragraph [0033] for memory 102 (corresponding to one continuous memory) is implemented as one 32-bit wide chip wherein a burst may comprise 16 bytes aligned to a 16 byte boundary and paragraph [0054] for the each memory (right or left memories corresponding to continuous memory segment) switches between rows every burst length.

As per claim 2, LINZER et al meet limitations of claim 1, including, wherein the machine-readable memory comprises volatile memory (SDRAM is analogous to volatile memory - see sections 0006, 0008 and 0033).

As per claim 4, LINZER et al meet limitations of claim 2, including, wherein the volatile memory comprises static random memory (see sections 0006, 0008 and 0033)

As per claim 5, LINZER et al meet limitations of claim 1, including, wherein the colorspace components comprise luminance, red difference sample, and blue difference sample see (section 0042)

As per claim 7, LINZER et al meet limitations of claim 1, including, wherein the pixel image data comprises a first data byte (section 0007), the first data byte being

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registered at a memory address immediately following one of the one or more burst boundaries (see section 0007 and section 0054 matches the address means with the burst means for the at least one burst boundary).

As per claim 8, of claim 1 wherein the pixel image data comprises a first data byte and subsequent data bytes (see section 0007), one of the subsequent data bytes being registered at a memory address immediately following one of the one or more burst boundaries (see section 0007 and section 0054 matches the address means with the burst means for the at least one burst boundary).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 6 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over LINZER et.al, US Patent Application Publication, Pub. No. US 2004/0100577 in view of BALKRISHNAN et al, US Patent No. 6,028,612.

As per claim 3, LINZER et al meet limitations of claim 2, however, does not expressly teach use of dynamic random access memory (DRAM).

BALAKRISHNAN teaches the above feature (col 8, lines 3-23).

It would have been obvious to one skilled in the art at the time of the invention to use the DRAM processing means because "...the delay of the burst is fixed -(see col 8, lines 15-23)" and provides results in "minimizing the memory bandwidth consumed by the overall decoding process - see col 8, lines 21-23) of BALAKRISHNAN et al to modify the memory for video storing data taught by LINZER et al because both inventions share similar technological environments and share similar problems, i.e., better utilization of bandwidth, and modification with the teaching of BALAKRISHNAN et al reduces bandwidth requirements.

As per claims 6 and 14, LINZER et al meet limitations of claims land 9, LINZER et al teach wherein the color space components comprise a red color level, and a blue color level (see section 0042), however, does not expressly teach a green color level.

BALAKRISHNAN et al teach the above feature (see col 10, lines 5-14 and col 11, lines 7- 16).

It would have been obvious to one skilled in the art at the time of the invention to use the features for "minimizing the memory bandwidth consumed by the overall decoding process - see col 8, lines 21-23)" of BALAKRISHNAN et al to modify the memory for video storing data taught by LINZER et al because both inventions share similar technological environments and share similar problems, i.e., better utilization of bandwidth, and modification with the teaching of BALAKRISHNAN et al reduces bandwidth requirements.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mike Rahmjoo whose telephone number is (571) 272-7789. The examiner can normally be reached on 6:30- 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on (571) 272- 7778. The fax phone number for the organization where this application or proceeding is assigned is (571) 273- 8300 for regular communications and After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4750.

Mike Rahmjoo

January 20, 2006



MATTHEW C. BELLA
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TECHNOLOGY CENTER 2600